

CLAIMS

1. An anti-lock brake control device comprising a first brake control means which is arranged in a first brake system, a second brake control means which is arranged in a second brake system, and a control device which controls the first brake control means and the second brake control means, wherein

in a state that the first brake control means and the second brake control means are in an operating state and, at the same time, the first brake control means performs anti-lock brake control, a brake working liquid pressure which is transmitted to the second brake control means is intermittently pressurized by the control device.

2. An anti-lock brake control device according to claim 1, wherein the brake working liquid pressure which is intermittently pressurized is gradually pressurized in a distributed manner.

3. An anti-lock brake control device according to claim 1 or 2, wherein the intermittent pressurizing of the brake working liquid pressure is performed within a predetermined time in which at least the first brake control means performs the anti-lock brake control.

4. An anti-lock brake control device according to claim 3, wherein the anti-lock brake control device is provided with a liquid pressure unit which includes a control valve which is

operated in response to a control signal from the control device along with an operation of manipulation elements which are arranged in the first brake system and the second brake system, and the predetermined time is a time from a point of time that the anti-lock brake control is started to a point of time the speed difference between a vehicle body speed and a wheel speed of a wheel which is to be braked in the second brake system is set to a value below a predetermined speed difference.

5. An anti-lock brake control device comprising:

a first brake force applying means which applies a brake force to a first wheel;

a second brake force applying means which applies a brake force to a second wheel;

a first brake working liquid pressure path which transmits a brake working liquid pressure of a master cylinder which is increased or decreased by operating a manipulation element to the first brake force applying means;

a second brake working liquid pressure path which transmits the brake working liquid pressure of the master cylinder to the second brake force applying means by operating the manipulating element;

a first holding valve which is capable of opening and closing the first brake working liquid pressure path;

a second holding valve which is capable of opening and closing the second brake working liquid pressure path;

a first pressure reducing valve which is capable of opening and closing a communication path between the first brake force applying means and a reservoir of the master cylinder;

a second pressure reducing valve which is capable of opening and closing a communication path between the second brake force applying means and the reservoir;

a brake working liquid recovering means which returns the brake working liquid in the reservoir to the master cylinder after pressurizing the brake working liquid; and

a control device which controls operations of the first holding valve, the second holding valve, the first pressure reducing valve, the second pressure reducing valve and the brake working liquid recovering means, wherein

during a period in which an anti-lock brake control is applied to the first wheel or the second wheel, due to the control device, the second holding valve or the first holding valve which is provided to the brake working liquid pressure path for transmitting the brake working liquid pressure to the second wheel or the first wheel is intermittently opened and closed.

6. An anti-lock brake control device according to claim 1 or claim 5, wherein the anti-lock brake control device is mounted on a two-wheeled vehicle which includes an interlocking brake device which is capable of transmitting the brake working liquid pressure to both of the front wheel and the rear wheel using one manipulation element.

7. An anti-lock brake system which includes the anti-lock brake control device described in any one of claims 1 to 6.